

Chapter Test B

For use after Chapter 1

Graph the numbers on a number line. Then write the numbers in increasing order.

1. $3, \frac{1}{2}, -2, 0.7, -\sqrt{9}$

2. $-\frac{4}{3}, 2.6, -1.9, \sqrt{5}, 0, 1.2$

Identify the property shown.

3. $6 + 0 = 6$

4. $8 \cdot (2 \cdot 3) = (8 \cdot 2) \cdot 3$

Select and perform an operation to answer the question.

5. What is the difference of -36 and 3 ?6. What is the quotient of 12 and $-\frac{1}{2}$?

Evaluate the expression.

7. $22 + 3 \cdot 2 - 17$

8. $7^2 - 4(8 - 3) \div 2$

9. $-4xy + 2x^2$ when $x = -1$ and $y = 3$

10. $\frac{1}{2}x + \frac{2}{3}y$ when $x = 18$ and $y = 7$

Simplify the expression.

11. $4x + 3y - 2x + 5y + x$

12. $3(x^2 - 2x) - 5(2x^2 - x)$

Solve the equation.

13. $5x - 13 = 12$

14. $\frac{1}{2}a + \frac{2}{3} = -\frac{1}{2}a - \frac{3}{4}$

15. $-1.1(x + 3) = 5.5$

16. $3(x + 2) = 8(x - 1) + 5$

17. $|x + 5| = 9$

18. $|3b + 4| = 13$

Solve the equation for y .

19. $3x + y = 4$

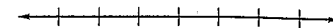
20. $9x - 2y = 3$

21. $3x + 2xy = 10$

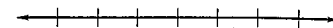
22. $\frac{1}{3}x - \frac{3}{4}y = 6$

Answers

1.



2.



3.

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22.

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Solve the inequality. Then graph your solution.

23. $2x + 3 \leq 9$

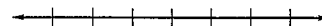
24. $6 - 4x > 3(x - 2)$

25. $-3 \leq x + 4 \leq 8$

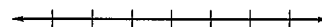
26. $-1.1 > 3x + 2.2$ or
 $2x - 3.5 > 1.7$

27. The formula for the area of a triangle is $A = \frac{1}{2}bh$. Solve the formula for h . What is the height of a triangle with an area of 10 square inches and a base of 5 inches?28. **Golf** Your high school golf team shot rounds of 68, 70, 72, 78, and 84. If par for the course was 71, how many shots was the team over par?29. **Concert Tickets** Tickets for a certain concert are \$29.95 each. Your family and a friend of yours go to the concert. There are five people in your family including yourself. How much will it cost?30. **Numbers** Seven more than 4 times a number is greater than 3. Write these numbers as an inequality.

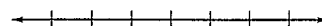
23. _____



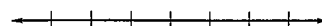
24. _____



25. _____



26. _____



27. _____

28. _____

29. _____

30. _____